

fusarium.ST25
SEQUENCE LISTING

<110> Beck, Jim
Barnett, Jason

<120> Detection of Fusarium Species infecting Corn Using the
Polymerase Chain Reaction

<130> 60055

<160> 24

<170> PatentIn version 3.0

<210> 1

<211> 682

<212> DNA

<213> Fusarium verticillioides (syn. F. moniliforme)

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caccatagga ctggccgccc catatgaaaa gattatatta gaattgaatg aagctttggt      180
tatatatattga taatgacagt atatatatcg tgtcttgact aattgcgtgc cagcagtcgc    240
ggtaataacgt aagagactag tgttattcat cttaattagg tttaaagggt acccagacgg      300
tcaatatagc ttataaaatg ttagtacttg actagagttt tatgtaagag ggcagtactt      360
gaggaggaga gatgaaatth cgtgatacca aagggactct gtaaaggcga aggcagccct      420
ctatgtaaaa actgacgttg aaggacgaag gcacagagaa caaacaggat tagataccca      480
agtagtcttt gcagtaaatg atgaatgcca taggttagat ggggtgggtta gtcgtagttg     540
agtttagttta gcaaactaat ggattcagac tagtccacca tatatttggt ctataaatga      600
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gtttctgaca ccagtagtga ag                                     682
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<210> 2

<211> 689

<212> DNA

<213> Fusarium proliferatum

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gttatataac accataggac tggccgcccc atatgaaaag attatattag aattgaatga      180
agctttgttt atatattgat aatgacagta tatatatcgt gtcttgacta attgcgtgcc      240
agcagtcgcg gtaatacgta agagactagt gttattcatc ttaattaggt ttaaagggtta     300
cccagacggg caatatagct tataaaatgt tagtacttga ctagagtttt atgtaagagg      360
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gcagtacttg aggaggagag atgaaatttc gtgataccaa agggactctg taaaggcgaa	420
ggcagccctc tatgtaaaaa ctgacgttga aggacgaagg cacagagaac aaacaggatt	480
agatacccaa gtagtctttg cagtaaatga tgaatgccat aggttagatg ggtgggctcg	540
tctagttgag ttagtttagc aaactaatga tctagacgag cccaccgtat atttggtcta	600
taaatgaaag tgtaagcatt tcacctcaag agtaatgtgg caacgcagga actgaaatca	660
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<210> 3
 <211> 726
 <212> DNA
 <213> gibberella zeae (syn. Fusarium graminearum)

<400> 3	
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<210> 4
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 <212> DNA
 <213> Fusarium subglutinans

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gttttataac accataggac tggccgcccc atatgaaaag attatattag aattgaatga	180
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cccagacggt caatatagct tataaaatgt tagtacttga ctagagtttt atgtaagagg	360

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gcagtacttg aggaggagag atgaaatttc gtgataccaa agggactcgg taaaggcgaa	420
ggcagccctc taggtaaaaa ctgacgttga aggacgaagg cacagagaac aaacaggatt	480
agatacccaa gtagtctttg cagtaaatga tgaatgccat aggttagatc tgagttggtg	540
gtctagttga gttagtttac taaactaatg atctatacaa gccagcctta gatttggtct	600
ataaatgaaa gtgtaagcat ttcacctcaa gagtaatgtg gcaacgcagg aactgaaatc	660
actagaccgt ttctgacacc agtagtgaag	690

<210> 5
 <211> 522
 <212> DNA
 <213> Fusarium subglutinans

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aggacccta aactctgttt ctatatgtaa cttctgagta aaaccataaa taaatcaaaa	180
ctttcaacaa cggatctctt ggttctggca tcgatgaaga acgcagcaaa atgcgataag	240
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gggactcgcg agtcaaactg cgttcccaaa attgattggc gggtcacgtc agcttccata	420
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<210> 6
 <211> 521
 <212> DNA
 <213> Gibberella zeae

<400> 6	
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aggaacccta aactctgttt ttagtggaac ttctgagtat aaaaaacaaa taaatcaaaa	180
ctttcaacaa cggatctctt ggttctggca tcgatgaaga acgcagcaaa atgcgataag	240
taatgtgaat tgcagaattc agtgaatcat cgaatctttg aacgcacatt gcgcccgcga	300
gtattctggc gggcatgcct gttcgagcgt catttcaacc ctcaagccca gcttggtggt	360
gggagctgca gtcctgctgc actcccaaa tacattggcg gtcacgtcga gcttccatag	420
cgtagtaatt tacacatcgt tactggtaat cgtcgcggcc acgccgttaa accccaactt	480
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<210> 7
 <211> 534
 <212> DNA
 <213> Fusarium proliferatum

<400> 7
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 cagcttccat tgcgtagtag taaaaccctc gcaactggta cgcggcgcgg ccaagccggt 480
 aaaccccaaa cttctgaatg ttgacctcgg atcaggtagg aatacccgt gaac 534

<210> 8
 <211> 522
 <212> DNA
 <213> Fusarium verticillioides (syn. F. moniliforme)

<400> 8
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 aggacccta aactctgttt ctatatgtaa cttctgagta aaaccataaa taaatcaaaa 180
 ctttcaacaa cggatctctt ggttctggca tcgatgaaga acgcagcaaa atgcgataag 240
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 gtattctggc gggcatgcct gttcgagcgt catttcaacc ctcaagcccc gcttggtggt 360
 gggactcgcg agtcaaactc ggttcccaaa attgattggc ggtcacgtcg agcttccata 420
 gcgtagtagt aaaaccctcg ttactggtaa tcgtcgcggc cagccggtta aacccaact 480
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<210> 9
 <211> 19
 <212> DNA
 <213> Artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(19)
 <223> Primer ITS1

<400> 9
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<210> 10
 <211> 20
 <212> DNA
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<220>
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 <222> (1)..(20)
 <223> Primer ITS2

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<210> 11
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<220>
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 <222> (1)..(20)
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<400> 11
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<210> 12
 <211> 20
 <212> DNA
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<220>
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 <222> (1)..(20)
 <223> Primer ITS4

<400> 12
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<210> 13
 <211> 21
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<220>
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 <223> Primer FCORN1

<400> 13
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<210> 14
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<220>
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<400> 14
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<210> 15
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<220>
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 <223> Primer FSUB1

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<210> 16
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 <212> DNA
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 <222> (1)..(21)
 <223> Primer FSUB2

<400> 16
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21

<210> 17
 <211> 21
 <212> DNA
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<220>
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 <222> (1)..(21)
 <223> Primer FSUB3

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21

<210> 18
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(20)
 <223> Primer FVERT1

<400> 18
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20

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<210> 19
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
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 <222> (1)..(20)
 <223> Primer FVERT2

<400> 19
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<210> 20
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 <212> DNA
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<220>
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 <223> Primer FPRO1

<400> 20
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<210> 21
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 <212> DNA
 <213> Artificial sequence

<220>
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 <222> (1)..(19)
 <223> Primer FPRO2

<400> 21
 gatttcgggg ccggcttgc 19

<210> 22
 <211> 18
 <212> DNA
 <213> Artificial sequence

<220>
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 <222> (1)..(18)
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<400> 22
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<210> 23
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 <213> Artificial sequence

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<220>
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<223> Primer MS1

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<210> 24
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<212> DNA
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<223> Primer MS2

<400> 24
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22